

## ABSTRACT

A system and method for allocating a time slot to support data transmission between the co-located 802.11a/e and HIPERLAN/2 systems in a wireless local area network (WLAN) are provided. To comply with the H2 standard requirement of periodic transmission of the frame at every  $2msec$ , the access point (AP) performs the QoS CF-Poll function to allow the transmission of the H2 MAC frames to occur at  $n * 2msec$  interval in the CCHC superframe, where the value of  $n$  depends on the HIPERLAN/2 MAC frame schedule of the AP. In particular, the AP polls itself to make other stations silent using the QoS CF-Poll function, then allocates a predetermined time period at each station to initiate H2 frame exchanges.